11.0 REFERENCES

American Conference of Governmental Industrial Hygienists. 1974. <u>Air Sampling Instruments for Evaluation of Atmospheric Contaminants</u>. 4th ed. American Conference of Governmental Industrial Hygienists, Washington, D.C.

American National Standards Institute/American Society of Mechanical Engineers (ANSI/ASME) NQA-1, Quality Assurance Program Requirements for Nuclear Facilities.

American Public Health Association Intersociety Committee (APHA). 1977. Methods of Air Sampling and Analysis - Second Edition. American Public Health Association, New York, New York.

American Public Health Association (APHA). 1985. Standard Methods for the Examination of Water and Wastewater. 16th Ed. American Public Health Association, New York, New York.

American Society for Testing and Materials (ASTM). 1985. Annual Book of ASTM Standards, Section 11. Vol 11.03, Atmospheric Analysis; Occupational Health and Safety. American Society for Testing and Materials, Philadelphia, Pennsylvania.

American Society for Testing and Materials (ASTM). 1986a. 1986 Annual Book of ASTM Standards. Section 12, Volume 12.02, Nuclear, Solar, and Geothermal Energy. American Society for Testing and Materials, Philadelphia, Pennsylvania.

American Society for Testing and Materials (ASTM). 1986b. 1986 Annual Book of ASTM Standards. Section 11, Volume 11.02, Water and Environmental Technology. American Society for Testing and Materials, Philadelphia, Pennsylvania.

ANSI/ANS-2.5-1984, American National Standard for Determining Meteorological Information at Nuclear Power Sites.

ANSI N13.1-1969, Guide to Sampling Airborne Radioactive Materials in Nuclear Facilities.

ANSI N42.18-1974 (R 1980), Specification and Performance of On-Site Instrumentation for Continuously Monitoring Radioactivity in Effluents.

ANSI N317-1980, Performance Criteria for Instrumentation Used for Inplant Plutonium Monitoring.

ANSI N413, Guidelines for the Documentation of Digital Computer Programs.

ANSI N545-1975, American National Standard - Performance, Testing, and Procedural Specifications for Thermoluminescent Dosimetry: Environmental Applications.

- Anspaugh, L. R., J. J. Koranda, W. L. Robison, and J. R. Martin. 1973. "The Dose to Man Via Food-Chain Transfer Resulting from Exposure to Tritiated Water Vapor." In Tritium. Messenger Graphics, Las Vegas, Nevada.
- Anspaugh, L. R., P. L. Phelps, P. H. Gudiksen, C. L. Lindeken, and G. W. Huckabay. 1974. "The In-Situ Measurement of Radionuclides in the Environment with a Ge(Li) Spectrometer." In <u>Proceedings of the Second International Symposium on the Natural Radiation Environment</u>, eds. J. A. S. Adams, W. M. Lowder, and T. Gesell. Atomic Energy Commission, Washington, D.C.
- Barr, S., and W. E. Clements. 1984. "Diffusion Modeling: Principles of Application." In <u>Atmospheric Science and Power Production</u>. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Batchelder, H. M., K. N. Passmore, and EG&G Idaho, Inc. 1977. <u>Effluent Information System and Onsite Discharge Information System User's Manual</u>. U.S. Department of Energy, Washington, D.C.
- Belanger, B. 1984. Measurement Assurance Programs, Part I: General Introduction. National Bureau of Standards Special Publication 676-I, U.S. Department of Commerce, Washington, D.C.
- Bellamy, R. R. 1974. "Elemental Iodine and Methyl Iodide Adsorption on Activated Charcoal at Low Concentrations." <u>Nuclear Safety</u>, Vol. 1516, pp. 711-723, U.S. Atomic Energy Commission Technical Information Center, Oak Ridge, Tennessee.
- Briggs, G. A. 1984. "Plume Rise and Buoyancy Effects." In <u>Atmospheric Science and Power Production</u>. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Committee on Biological Effects of Ionizing Radiation. 1980. The Effects on Populations of Exposure to Low Levels of Ionizing Radiation (BEIR III Report). National Academy of Sciences, Washington, D.C.
- Crutcher, H. L. 1984. "Monitoring, Sampling, and Managing Meteorological Data." In <u>Atmospheric Science and Power Production</u>. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Denham, D. H. 1979. "Environmental Radiological Surveillance in Perspective: The Relative Importance of Environmental Media as a Function of Effluent Pathway and Radionuclides." Health Physics 36:273-281.
- Denham, D. H., D. A. Waite, and J. P. Corley. 1974. <u>Summary of Selected AEC Contractor Environmental Surveillance Techniques and Capabilities</u>. BNWL-B-384, Pacific Northwest Laboratory, Richland, Washington.
- dePlanque, G., and T. F. Gesell. 1982. "Thermoluminescence Bosimetry-Environmental Applications." <u>International Journal of Applied Radiation and Isotopes</u> 33:1015-1034.

dePlanque, G., T. F. Gesell, and K. Becker. 1976. "Second International Intercomparison of Environmental Dosimeters Under Field and Laboratory Conditions." In <u>Proceedings of the Tenth Midyear Topical Symposium of the Health Physics Society</u>, pp. 555-574. Rensselaer Polytechnic Institute, Troy, New York.

DOE 1324.2, Records Disposition, 5-28-80.

DOE 5000.3, Unusual Occurrence Reporting System, 11-7-84.

DOE 5400.1, General Environmental Protection Program Requirements, 11-9-88.

DOE 5400.4, Comprehensive Environmental Response, Compensation, and Liability Act Program, of 10-6-89.

DOE 5400.5, Radiation Protection of the Public and the Environment, 2-8-90.

DOE 5440.1C, Implementation of the National Environmental Policy Act, 4-9-85.

DOE 5480.1B, Environment, Safety, and Health Program for Departmental Operations, 9-23-86.

DOE 5480.4, Environmental Protection, Safety, and Health Protection Standards, 5-15-84.

DOE 5480.5, Safety of Nuclear Facilities, 9-23-86.

DOE 5480.6, Safety of Department of Energy-Owned Nuclear Reactors, 9-23-86.

DOE 5480.11, Radiation Protection for Occupational Work, 12-21-88.

DOE 5480.14, Comprehensive Environmental Response, Compensation, and Liability Act Program, 4-26-85.

DOE 5481.1B, Safety Analyses and Review System, 9-23-86.

DOE 5482.1B, Environment, Safety, and Health Appraisal Program, 9-23-86.

DOE 5483.1A, Occupational Safety and Health Program for DOE Contractor Employees at Government-Owned, Contractor-Operated Facilities, 6-22-83.

DOE 5484.1, Environmental Protection, Safety, and Health Protection Information Reporting Requirements, 2-24-81.

DOE 5700.6B, Quality Assurance, 9-23-86.

DOE 5820.2, Radioactive Waste Management, 2-6-84.

DOE/EH-0070, External Dose-Rate Conversion Factors for Calculation of Dose to the Public, 719-88.

DOE/EH-0071, Internal Dose Conversion Factors for Calculation of Dose to the Public, 719-88.

DOE/EP-0023, A Guide for: Environmental Radiological Surveillance at U.S. Department of Energy Installations, 1981.

DOE/EP-0096, A Guide for Effluent Radiological Measurements at DOE Installations.

DOE/EV-1830-T5, A Guide to Reducing Radiation Exposure to as Low as Reasonably Achievable, 1980.

DOE/GJ/TMC-13, Procedures for Sampling Radium-Contaminated Soils, 1984.

DOE/IDO-12096, Radiological and Environmental Sciences Laboratory, Analytical Chemistry Branch Procedures Manual, 1982.

DOE/MLM-2015, A Ruggedized Ultrasensitive Field Air Sampler for HTO and HT, Mound Laboratory.

DOE/NVO-213, Radiological Support Project Final Report.

Droppo, J. G., Jr., G. Whelan, J. W. Buck, D. L. Strenge, B. L. Hoopes, M. B. Walter, R. L. Knight, and S. M. Brown. 1979. <u>Supplemental Mathematical Formulations: The Multimedia Environmental Pollutant Assessment System (MEPAS)</u>. PNL-7201, Pacific Northwest Laboratory, Richland, Washington.

Dunning, D. E., Jr., R. W. Leggett, and M. G. Yalcintas. 1980. <u>A Combined Methodology for Estimating Dose Rates and Health Effects from Exposure to Radioactive Pollutants</u>. ORNL/TM-7105, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

EPA-450/2-78-027R, Guideline on Air Quality Models (Revised), 1986.

EPA-450/4-86-005a, Industrial Source Complex (ISC) Dispersion Model User's Guide, Vol. 1, 2nd ed, 1986.

EPA-450/4-87-103, Onsite Meteorological Program Guidance for Regulatory Modeling Applications, 1987.

EPA 520/1-79-009 (ORNL-5532), AIRDOS-EPA: A Computerized Methodology for Estimating Environmental Concentrations and Dose to Man from Airborne Releases of Radionuclides, 1979.

EPA-520/1-88-020, Federal Guidance Report No. 11, Limiting Values of Radionuclide Intake and Air Concentration and Dose Conversion Factors for Inhalation, Submersion, and Inquestion, 1988.

EPA-520/5-84-006, Eastern Environmental Radiation Facility Radiochemistry Procedures Manual. 1984.

EPA-520/6-89-035, User's Guide for AIRDOS-PC Version 3.0, December 1990.

EPA-600/4-78-032, Environmental Radioactivity Laboratory Intercomparison Studies Program, 1978-1979, 1978.

EPA-600/4-79-019, Handbook for Analytical Quality Control in Water and Waste-Water Laboratories, 1979.

EPA-600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water, 1980.

EPA-600/7-77-088, Handbook for Analytical Quality Control in Radioanalytical Laboratories, 1977.

EPA-600/8-78-008, Manual for the Interim Certification of Laboratories Involved in Analyzing Public Drinking Water Supplies, 1978.

EPA-600/8-84-207, INPUFF - A Single Source Gaussian Puff Dispersion Model User's Guide. 1984.

EPA-600/8-86-024, INPUFF 2.0 - A Multiple Source Gaussian Puff Dispersion Algorithm User's Guide, 1986.

EPA-600/9-76-005, Quality Assurance Handbook for Air Pollution Measurement Systems, Volumes I, II, III, 1976.

EPA-625/6-74-003, Methods for Chemical Analysis of Water and Wastes (with latest revisions).

EPA-5201/1-80-01, Upgrading Environmental Radiation Data, Health Physics Society Committee Report HPSR-1, 1980.

EPA EMSL-LV-0539-17, Radiochemical Analytical Procedures for Analysis of Environmental Samples, 1979.

EPA ORP/SID 72-2, Environmental Radioactivity Surveillance Guide, 1972.

EPA-R4-73-014, Procedures for Radiochemical Analysis of Nuclear Reactor Aqueous Solutions, 1973.

EPA. 1990. The Clean Air Act Assessment Package-1988 (CAP-88): A Dose and Risk Assessment Methodology for Radionuclide Emissions to Air, Volume 1: User's Manual; Volume 2: Appendices A-H; Volume 3: Appendices I-M. SC&A, Inc., McLean, Virginia.

Federal Information Processing Standard, FIPS Pub. 38, Guidelines for Documentation of Computer Programs and Automated Data Systems.

- Finkelstein, P. L., D. A. Mazzarella, T. J. Lockhart, W. J. King, and J. H. White. 1983. <u>Quality Assurance Handbook for Air Pollution Measurement Systems</u>. Volume IV: <u>Meteorological Measurements</u>. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina.
- Fix, J. J., and M. L. Miller. 1978. <u>The Hanford Environmental CaF₂:Mn Thermoluminescent Dosimeter</u>. PNL-2489, Pacific Northwest Laboratory, Richland, Washington.
- Fowler, E. B., W. Henderson, and F. Milligan, compilers. 1971. <u>Proceedings of Environmental Plutonium Symposium--August 4-5, 1971</u>. LA-4756, Los Alamos Scientific Laboratory, Los Alamos, New Mexico.
- Fuchs, N. A. 1975. "Review Paper Sampling of Aerosols." <u>Atmospheric Environment 9:697-707.</u>
- Gabay, J. J., C. J. Paperiello, S. Goodyear, J. C. Daly, and J. M. Matuszek. 1974. "A Method for Determining Iodine-129 in Milk and Water." <u>Health</u> Physics 26:89-96.
- Gesell, T. F. 1982. <u>Environmental Monitoring with Thermoluminescence Dosimetry</u>. IEEE Transactions on Nuclear Science, Vol. NS-29, No. 3. Institute of Electrical and Electronics Engineers, Inc., New York, New York.
- Gesell, T. F., F. L. Kalbeitzer, and G. dePlanque. 1982. "Highlights of the Sixth International Intercomparison of Environmental Dosimeters." <u>Radiation Protection Dosimetry</u> 6(1-4):265-268.
- Gifford, F. A. 1961. "Use of Routine Meteorological Observations for Estimating Atmospheric Dispersion." <u>Nuclear Safety</u> 3(4):76-80.
- Gifford, F. A. 1968. "An Outline of Theories of Diffusion in the Lower Layers of the Atmosphere." In <u>Meteorology and Atomic Energy 1968</u>, pp. 65-116. TID-24190, U.S. Atomic Energy Commission, Washington, D.C.
- Gifford, F. A. 1976. "Turbulent Diffusion-Typing Schemes: A Review." Nuclear Safety 17(1):68-86.
- Gilbert, R. O. 1987. <u>Statistical Methods for Environmental Pollution Monitoring</u>. Van Nostrand Reinhold Co., New York, New York.
- Gilbert, R. O., and R. R. Kinnison. 1981. "Statistical Methods for Estimating the Mean and Variance from Radionuclide Data Sets Containing Negative, Unreported or Less-Than Values." <u>Health Physics</u> 40:377-390.
- Gilbert, T. L., C. Yu, Y. C. Yuan, A. J. Zielen, M. J. Jusko, and A. Wallo III. 1989. <u>A Manual for Implementing Residual Radioactive Material Guidelines</u>. ANL/ES-160, DOE/CH/8901, Argonne National Laboratory, Argonne, Illinois.

- Goldin, A. S. 1970. "Evaluation of Internal Control Measurements in Radio-assay." <u>Health Physics</u> 47:361.
- Griffin, W. R., J. A. Cochran, and A. A. Bertuccio. 1972. <u>A Sampler for Nonaqueous Tritium Gases</u>. U.S. Environmental Protection Agency, Office of Radiation Programs, Winchester, Massachusetts.
- Grossman, R. F., and R. W. Holloway. 1985. "Concentrations of Krypton-85 near the Nevada Test Site." <u>Environmental Science and Technology</u> 19:1128-1131.
- Hall, R. M., and J. P. LaRocca. 1966. "Thermoluminescent Dosimeters for Environmental Monitors." <u>Health Physics</u> 12:851-852.
- Hanna, S. R., G. A. Briggs, J. Deardorff, B. A. Egan, F. A. Gifford, and F. Pasquill. 1977. "AMS Workshop on Stability Classification Schemes and Sigma Curves--Summary of Classification Recommendations." <u>Bulletin of the American Meteorological Society</u> 58:1305-1309.
- HASL-195, The Radiation Field in Air Due to Distributed Gamma-Ray Sources in the Ground, 1966.
- HASL-252, Investigation of a CaF₂:Mn Thermoluminescent Dosimetry System for Environmental Monitoring, 1972.
- HASL-256, In Situ Ge(Li) and NaI(Tl) Gamma-Ray Spectrometry, 1972.
- HASL-300, EML Procedures Manual (revised annually).
- Hawley, K. A., and D. K. Washburn. 1985. <u>Summary of Annual Site Environ-mental Monitoring Reports, January-December 1983</u>. Prepared by Pacific Northwest Laboratory for the U.S. Department of Energy, Washington, D.C.
- Health Physics Society Committee. 1980. "Quality Assurance for Environmental Monitoring Programs." In <u>Upgrading Environmental Radiation Data</u>, Chapter 5. Report HPSR-1, EPA-520/1-80-012, U.S. Environmental Protection Agency, Washington, D.C.
- Healy, J. W. 1984. <u>A Proposed Interim Standard for Plutonium in Soils</u>. LA-5483-MS, University of California, Los Alamos Scientific Laboratory, Los Alamos, New Mexico.
- Hendee, W. R. 1967. "Radiation Response of LiF at Low Doses." <u>Health</u> <u>Physics</u> 13:1235-1236.
- Hesketh, H. E., and F. L. Cross, Jr. 1983. <u>Fugitive Emissions and Control</u>. Ann Arbor Science Publishers, Inc., Ann Arbor, Michigan.
- Hidy, G. M. 1984. <u>Aerosols, An Industrial and Environmental Science</u>. Academic Press, Inc., New York, New York.

- Hinds, W. C. 1982. <u>Aerosol Technology</u>. John Wiley and Sons, New York, New York.
- Hoffman, F. O., and C. F. Baes III. 1979. <u>A Statistical Analysis of Selected Parameters for Predicting Food Chain Transport and Internal Dose of Radionuclides</u>. NUREG/CR-1004, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Hoffman, F. O., C. W. Miller, D. L. Shaeffer, and C. T. Garten, Jr. 1977. "Computer Codes for the Assessment of Radionuclides Released to the Environment." Nuclear Safety 18:343.
- Hollander, M., and D. A. Wolfe. 1973. Non-Parametric Statistical Methods. John Wiley and Sons, New York, New York.
- Hosker, R. P., Jr. 1984. "Flow and Diffusion near Obstacles." In Atmospheric Science and Power Production, pp. 241-326. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Hoy, J. E. 1971. "Environmental Radiation Monitoring with Thermoluminescent Dosimeters." <u>Health Physics</u> 21:860-862.
- ICRP Publication 23, Reference Man: Anatomical, Physiological and Metabolic Characteristics.
- ICRP Publication 26, Recommendations of the International Commission on Radio logical Protection.
- ICRP Publication 30, Limits for Intakes of Radionuclides by Workers.
- ICRP Publication 43, Principles of Monitoring for the Radiation Protection of the Population.
- ICRP Publication 45, Quantitative Bases for Developing a Unified Index of Harm.
- ICRP Publication 48. The Metabolism of Plutonium and Related Elements.
- IEC N. 761-1, Equipment for Continuously Monitoring Radioactivity in Gaseous Effluents, Part 1: General Requirements.
- IEC N. 761-2, Equipment for Continuously Monitoring Radioactivity in Gaseous Effluents, Part 2: Specific Requirements for Aerosol Effluent Monitors.
- IEC N. 761-3, Equipment for Continuously Monitoring Radioactivity in Gaseous Effluents, Part 3: Specific Requirements for Noble Gas Effluent Monitors.
- IEC N. 761-4, Equipment for Continuously Monitoring Radioactivity in Gaseous Effluents, Part 4: Specific Requirements for Iodine Monitors.
- IEC N. 761-5, Equipment for Continuously Monitoring Radioactivity in Gaseous Effluents, Part 5: Specific Requirements for Tritium Effluent Monitors.

- Inhorn, S. L., ed. 1978. Quality Assurance Practices for Health Laboratories. American Public Health Association, Washington, D.C.
- International Atomic Energy Agency (IAEA). 1982. <u>Generic Models and Parameters for Assessing the Environmental Transfer of Radionuclides from Routine Releases Exposures of Critical Groups</u>. Safety Series No. 57, International Atomic Energy Agency, Vienna, Austria.
- International Commission on Radiological Protection Task Group on Lung Dynamics (ICRP Task Group). 1966. "Deposition and Retention Models for Internal Dosimetry of the Human Respiratory Tract." <u>Health Physics</u> 12:173-297.
- International Organization for Standardization (ISO). 1975. <u>General Principles for Sampling Airborne Radioactive Materials</u>. ISO 2889-1975, International Organization for Standardization, Geneva, Switzerland.
- Intersociety Committee for a Manual of Methods for Ambient Air Sampling and Analysis (Intersociety Committee). 1972. Methods of Air Sampling and Analysis. American Public Health Association, Washington, D.C.
- Irwin, J. S. 1980. <u>Dispersion Estimate Suggestion #8: Estimation of Pasquill Stability Categories</u>. Docket Reference No. II-B-10. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina.
- Irwin, J. S. 1983. "Estimating Plume Dispersion--A Comparison of Several Sigma Schemes." <u>Journal of Climate and Applied Meteorology</u> 22:92-114.
- Jackson, W. M., J. D. Spaulding, J. E. Noakes, and G. L. Murphy. 1985. "Comparison of Environmental Radiation Dosimetry and γ -ray Spectroscopy." Health Physics 48:747-756.
- Kahn, B. 1972. "Determination of Radioactive Nuclides in Water." In <u>Water and Waste Pollution Handbook</u>, ed. L. L. Ciacco. M. Decker, Publisher, New York, New York.
- Keller, J. H., F. A. Duce, D. T. Pence, and W. J. Maeck. 1970. "Iodine Chemistry in Steam Air Atmospheres." In <u>Proceedings of the Fifth Annual Health Physics Society Mid-Year Symposium: Health Physics Aspects of Nuclear Facility Siting</u>, pp. 764-783. Health Physics Society, Idaho Falls, Idaho.
- Kennedy, W. E., Jr., and M. A. Mueller. 1982. <u>Summary of the Environmental Dose Models Used at DOE-Nuclear Sites</u>. PNL-3916, Pacific Northwest Laboratory, Richland, Washington.
- Lague, J. S., E. M. Irvine, and T. F. Lavery. 1980. "Validation of Alternate Turbulence Typing Models for Estimating Air Quality Effects of Coastal Sources near Rough Terrain." Presented at the Second Joint Conference on Applications of Air Pollution Meteorology, and the Second Conference on Industrial Meteorology, March 24-27, 1980, New Orleans, Louisiana.

- Lalas, D. P., V. Catsoulis, and M. Petrakis. 1979. "On the Consistency of Stability Classification Schemes when Applied to Non-Homogeneous Terrain." Atmospheric Environment 13:687-691.
- Lee, R. E., Jr. 1974. "Measuring Particulate Matter in Air." In <u>Instrumentation for Monitoring Air Quality</u>. ASTM Publication STP-555, American Society for Testing and Materials, Philadelphia, Pennsylvania.
- Ludwig, F. L. 1976. "Siting Air Monitoring Stations." <u>Environmental Science</u> and <u>Technology</u> 12(7):774-778.
- Luna, R. E., and H. W. Church. 1972. "A Comparison of Turbulence Intensity and Stability Ratio Measurements to Pasquill Stability Classes." <u>Journal of Applied Meteorology</u> 11:663-669.
- Mark, D., J. H. Vincent, and W. A. Witherspoon. 1982. "Particle Blow-off: A Source of Error in Blunt Dust Samplers." <u>Aerosol Science and Technology</u> 1:463-469.
- Mason, C. J., and H. Moses. 1984. "Meteorological Instrumentation." In <u>Atmospheric Science and Power Production</u>, pp. 81-135. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Mejdahl, V. 1970. "Measurement of Environmental Radiation Intensity with Thermoluminescent CaSO₄:Dy." <u>Health Physics</u> 18:164-167.
- Meyer, H. R., and J. Purvis. 1985. "Development of an Interference-Corrected Soil Radium Measurement System." <u>Transactions of the American Nuclear Society</u> 50:184-187.
- Mitchell, A. E., Jr. 1982. "A Comparison of Short-Term Dispersion Estimates Resulting from Various Atmospheric Stability Classification Schemes." <u>Atmospheric Environment</u> 16:765-773.
- Mohrand, R. A., and L. A. Franks. 1982. <u>Compilation of ¹³⁷Cs Concentrations</u> at Selected Sites in the Continental United States. EGG-1183-2437-Rev, EG&G, Inc., Goleta, California.
- Moore, R. E., C. F. Baes III, L. M. McDowell-Boyer, A. P. Watson, F. O. Hoffman, J. C. Pleasant, and C. W. Miller. 1979. <u>AIRDOS-EPA: A Computerized Methodology for Estimating Environmental Concentrations and Dose to Man from Airborne Releases of Radionuclides</u>. EPA 520/1-79-009 (ORNL-5532), Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Myrick, T. E., B. A. Berven, and F. F. Haywood. 1983. "Determination of Selected Radionuclides in Surface Soil in the United States." <u>Health Physics</u> 45:631-642.
- Napier, B. A., et al. 1988. <u>GENII The Hanford Environmental Radiation</u>
 <u>Dosimetry Software System</u>. PNL-6584, Pacific Northwest Laboratory, Richland, Washington.

National Bureau of Standards Special Publication 609, "Proceedings of a Meeting on Traceability for Ionizing Radiation Measurements," 1982.

National Council on Radiation Protection and Measurements (NCRP). 1978. "The Assurance of Accuracy and Precision in National and International Measurements of Radioactivity." In <u>A Handbook of Radioactivity Measurements Procedures</u>, pp. 299-305. NCRP Report No. 58, National Council on Radiation Protection and Measurements, Bethesda, Maryland.

NCRP Commentary 3, Screening Techniques for Determining Compliance with Environmental Standards, 1986.

NCRP Report No. 76, Radiological Assessment: Predicting the Transport, Bioaccumulation, and Uptake by Man of Radionuclides Released to the Environment.

NRC Regulatory Guide 1.23, Onsite Meteorological Programs, 1972.

NRC Regulatory Guide 1.52, Design, Testing, and Maintenance Criteria for Post-Accident Engineered-Safety-Feature Atmosphere Cleanup System Air Filtration and Adsorption Units of Light-Water-Cooled Nuclear Power Plants, 1976.

NRC Regulatory Guide 1.109, Appendix I, Calculation of Annual Doses to Man from Routine Releases of Reactor Effluents for the Purposes of Evaluating Compliance with 10 CFR Part 50, 1977.

NRC Regulatory Guide 4.5, Measurement of Radionuclides in the Environment--Sampling and Analysis of Plutonium in Soil.

NRC Regulatory Guide 4.13, Revision 1, Performance, Testing, and Procedural Specifications for Thermoluminescent Dosimetry: Environmental Applications, 1977.

NRC Regulatory Guide 4.15, Quality Assurance for Radiological Monitoring Programs (Normal Operations)--Effluent Streams and the Environment, 1980.

NRC Regulatory Guide 6.25, Calibration and Error Limits of Air Sampling for Total Volume of Air Sampled, 1980.

NUREG/CR-0523, MESODIF-II: A Variable Trajectory Plume Segment Model to Assess Ground-Level Air Concentrations and Deposition from Nuclear Power Facilities, 1979.

NUREG/CR-0798, Evaluation of Empirical Atmospheric Diffusion Data, 1979.

NUREG/CR-3332, Radiological Assessment - A Textbook on Environmental Dose Analysis, 1983.

NUREG/CR-3344, MESOI Version 2.0: An Interactive Mesoscale Lagrangian Puff Dispersion Model with Deposition and Decay, 1983.

NUREG/CR-4000, The MESORAD Dose Assessment Model, 1986.

- Oakes, T. W., K. E. Shank, and J. S. Eldridge. 1980. "Quality Assurance Applied to Environmental Radiological Surveillance." <u>Nuclear Safety</u> 21(2):217-226.
- Okazaki, K., R. Wiener, and K. Willeke. 1985. "Sampling Efficiencies of Aerosol Sampling Inlets." Paper presented at the Seventeenth Aerosol Technology Meeting, August 26-28, 1985. Columbus, Ohio.
- OMB Circular A-106, Reporting Requirements in Connection with the Prevention, Control, and Abatement of Environmental Pollution at Existing Federal Facilities, 1975.
- Osborne, R. V. 1974. "Sampling for Tritiated Water Vapour." In <u>Proceedings of the Third International Congress of the International Radiation Protection Association, September 9-14, 1973, Washington, D.C.</u>, Paper No. 222. U.S. Atomic Energy Commission Technical Information Center, Oak Ridge, Tennessee.
- Ostlund, H. G. 1970. A Rapid Field Sampling for Tritium in Atmospheric Hydrogen. Report ML 70075, Rosenstiel School of Marine and Atmospheric Sciences, University of Miami, Miami, Florida.
- Pasquill, F. 1961. "The Estimation of the Dispersion of Windborne Material." Meteorological Magazine 90(1063):33-49.
- Pasquill, F. 1979. "Atmospheric Dispersion Modeling." <u>Journal of the Air Pollution Control Association</u> 29:117-119.
- PHS Publication No. 999-AP-26, Workbook of Atmospheric Dispersion Estimates, 1969.
- Presidential Executive Order 11752, "Prevention, Control, and Abatement of Environmental Pollution at Federal Facilities," 38 Federal Register 34793 (December 19, 1973).
- Presidential Executive Order 12088, "Federal Compliance with Pollution Control Standards," 43 Federal Register 47707-09 (October 13, 1978).
- Ramsdell, J. V., S. R. Hanna, and H. E. Cramer. 1982. <u>Turbulent Diffusion Coefficients Within and Above the Urban Domain</u>. Prepared for the U.S. Army Atmospheric Sciences Laboratory by Battelle, Pacific Northwest Laboratories, Richland, Washington.
- Randerson, D. 1984a. "Atmospheric Boundary Layer." In <u>Atmospheric Science</u> and <u>Power Production</u>, pp. 147-188. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Randerson, D. 1984b. "Power Production and the Atmosphere." In <u>Atmospheric Science and Power Production</u>, pp. 1-31. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.

- Randerson, D., ed. 1984c. <u>Atmospheric Science and Power Production</u>. DOE/TIC-27601, U.S. Department of Energy, Washington, D.C.
- Rosenstein, M., and A. S. Goldin. 1964. <u>Statistical Techniques for Quality Control of Environmental Radioassay</u>. Air Quality Control Service Report Stat-1, U.S. Public Health Service, Winchester, Massachusetts.
- Sedefian, L., and E. Bennett. 1980. "A Comparison of Turbulence Classification Schemes." <u>Atmospheric Environment</u> 14:741-750.
- Shaw, R. W., R. K. Stevens, C. W. Lewis, and J. H. Chance. 1983. "Comparison of Aerosol Sampler Inlets." <u>Aerosol Science and Technology</u> 2:53-67.
- Sill, C. W., and R. L. Williams. 1971. "Rapid Identification and Determination of Alpha Emitters in Environmental Samples." In <u>Rapid Methods for Measuring Radioactivity in the Environment</u>, p. 201. International Atomic Energy Agency, Vienna, Austria.
- Skaggs, D. L., and E. Robinson. 1976. "A Comparison of Methods for Estimating Atmospheric Stability and Diffusion Coefficients." <u>Journal of the Air Pollution Control Association</u> 26:888-891.
- Slade, D. H., ed. 1968. <u>Meteorology and Atomic Energy 1968</u>. TID-24190, U.S. Atomic Energy Commission, Washington, D.C.
- Smith, W. S., ed. 1984. <u>EPA Stationary Source Sampling Methods Notebook (NSPS and NESHAP Methods)</u>. McIlvaine Company, Northbrook, Illinois.
- Soldat, J. K., and R. D. Harr. 1971. "Radiation Dose Model." In <u>HERMES A Digital Computer Code for Estimating Regional Effects from the Nuclear Power Industry</u>. HEDL-TME-71-68, Hanford Engineering Development Laboratory, Richland, Washington.
- Soldat, J. K., N. M. Robinson, and D. A. Baker. 1974. <u>Models and Computer Codes for Evaluating Environmental Radiation Doses</u>. BNWL-1754, Battelle, Pacific Northwest Laboratories, Richland, Washington.
- Stanley, R. E., and A. R. Moghissi, eds. 1974. <u>Noble Gases: Proceedings of a Conference Held in Las Vegas, Nevada. August 1972</u>. Messenger Graphics, Phoenix, Arizona.
- Taylor, J. K., and T. W. Stanley, eds. 1985. <u>Quality Assurance for Environmental Measurements</u>. ASTM Special Technical Publication 867, American Society for Testing and Materials, Philadelphia, Pennsylvania.
- Title 10 CFR Part 50, Domestic Licensing of Production and Utilization Facilities.
- Title 10 CFR Part 50, Appendix B, Quality Assurance Criteria for Nuclear Power Plants and Fuel Reprocessing Plants.

Title 10 CFR Part 60, Disposal of High-Level Wastes in Geologic Repositories.

Title 40 CFR Part 61, National Emission Standards for Radionuclide Emissions from Department of Energy (DOE) Facilities.

Title 40 CFR Part 141, Subparts A and H, National Interim Primary Drinking Water Regulations (Safe Drinking Water Act).

Title 40 CFR Part 191, Environmental Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level and Transuranic Radioactive Wastes.

Title 40 CFR Part 192, Health and Environmental Protection Standards for Uranium and Thorium Mill Tailings.

Title 40 CFR Part 260, General Regulations on Hazardous Waste Management.

Title 40 CFR Part 261, Identification and Listing of Hazardous Waste.

Title 40 CFR Part 262, Standards Applicable to Generators of Hazardous Waste.

Title 40 CFR Part 263, Standards for Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities.

Title 40 CFR Part 264, Regulations for Owners and Operators of Permitted Hazardous Waste Facilities.

Title 40 CFR Part 265, Interim Standards for Owners and Operators of Permitted Hazardous Waste Facilities.

Title 42 U.S.C. 300, et seq., Safe Drinking Water Act, as amended.

Title 33 U.S.C. 466, et seq., Federal Water Pollution Control Act, as amended.

Title 42 U.S.C. 2011, et seq., Atomic Energy Act of 1954. as amended.

Title 42 U.S.C. 4341, et seg., National Environmental Policy Act of 1969, as amended.

Title 42 U.S.C. 6901, et seq., Resource Conservation and Recovery Act of 1976 (RCRA).

Title 42 U.S.C. 7401, et seq., Clean Air Act, as amended.

Title 42 U.S.C. 9615 (Superfund), Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

Title 42 U.S.C. 10101, et seq., Nuclear Waste Policy Act of 1982, as amended.

- Trevathan, M. S., and K. R. Price. 1985. "Ambient Krypton-85 Air Sampling at Hanford." In <u>Proceedings of the Fifth DOE Environmental Protection Information Meeting</u>, CONF-841187, vol. 2, pp. 655-662. U.S. Department of Energy, Washington, D.C.
- Trubey, D. K., and S. V. Kaye. 1973. <u>The EXREM III Computer Code for Estimating External Radiation Doses to Populations from Environmental Releases</u>. ORNL-TM-4322, Oak Ridge National Laboratory, Oak Ridge, Tennessee.
- Turner, D. B. 1964. "A Diffusion Model for an Urban Area." <u>Journal of Applied Meteorology</u> 3:83-91.
- Urabe, I., and K. Katsurayama. 1984. "Feasibility Study on a Continuous Environmental Gamma-Ray Monitor Using a NaI(T1) Scintillation Spectrometer." Health Physics 47:559-566.
- Vincent, J. H., P. C. Emmett, and D. Mark. 1985. "The Effect of Turbulence on the Entry of Airborne Particles into a Blunt Dust Sampler." <u>Aerosol Science and Technology</u> 1(4):17-29.
- Waite, D. A. 1973a. <u>Analysis of an Analytical Technique for Distributing Air Sampling Locations Around Nuclear Facilities</u>. BNWL-SA-4676, Pacific Northwest Laboratory, Richland, Washington.
- Waite, D. A. 1973b. <u>An Analytical Technique for Distributing Air Sampling Locations Around Nuclear Facilities</u>. BNWL-SA-4534, Pacific Northwest Laboratory, Richland, Washington.
- Watson, J. E. (chairman). 1980. <u>Upgrading Environmental Radiation Data</u>, <u>Health Physics Society Committee Report HPSR-1 (1980)</u>. EPA 5201/1-80-01, U.S. Environmental Protection Agency, Washington, D.C.
- Wedding, J. B., A. R. Andrews, and J. E. Cermak. 1977. "Large Particle Collection Characteristics of Ambient Air Samplers." <u>Environmental Science and Technology</u> 4(11):387-390.
- Weil, J. C. 1979. "Applicability of Stability Classification Schemes and Associated Parameters to Dispersion of Tall Stack Plumes in Maryland." Atmospheric Environment 13:819-831.
- Whelan, G., D. L. Strenge, J. G. Droppo, Jr., B. L. Steelman, and J. W. Buck. 1987. <u>The Remedial Action Priority System (RAPS): Mathematical Formulations</u>. PNL-6200, DOE/RL/87-09, Pacific Northwest Laboratory, Richland, Washington.
- Winer, B. J. 1971. <u>Statistical Principles in Experimental Design</u>. McGraw-Hill Book Company, New York, New York.